

FILE ID **WRIEDTMSG

M 2

EDTS
V04-

WW	WW	RRRRRRRR	IIIIII	EEEEEEEEE	DDDDDDDD	TTTTTTTT	MM	MM	SSSSSSS	GGGGGGGG	56
WW	WW	RRRRRRRR	IIIIII	EEEEEEEEE	DDDDDDDDD	TTTTTTTT	MM	MM	SSSSSSS	GGGGGGGG	74
WW	WW	RR	RR	II	EE	DD	DD	TT	SS	GG	74
WW	WW	RR	RR	II	EE	DD	DD	TT	SS	GG	74
WW	WW	RR	RR	II	EE	DD	DD	TT	SS	GG	74
WW	WW	RRRRRRRR	II	EEEEEEE	DD	DD	TT	MM	SSSSSS	GG	72
WW	WW	RRRRRRRR	II	EEEEEEE	DD	DD	TT	MM	SSSSSS	GG	73
WW	WW	RR	RR	II	EE	DD	DD	TT	SS	GG	53
WW	WW	RR	RR	II	EE	DD	DD	TT	SS	GG	20
WWWW	WWWW	RR	RR	II	EE	DD	DD	TT	MM	GGGGGG	6E
WWWW	WWWW	RR	RR	II	EE	DD	DD	TT	MM	GGGGGG	2E
WW	WW	RR	RR	IIIIII	EEEEEEEEE	DDDDDDDD	TTT	MM	SSSSSSS	GGGGGG	20
WW	WW	RR	RR	IIIIII	EEEEEEEEE	DDDDDDDD	TTT	MM	SSSSSSS	GGGGGG	27
LL	LL	IIIIII	SSSSSSS	SSSSSSS	SS	SS	SS	SS	SSSSSSS	SS	45
LL	LL	II	SS	SS	SS	SS	SS	SS	SSSSSSS	SS	00
LL	LL	II	SSSSSS	SSSSSS	SS	SS	SS	SS	SSSSSSS	SS	
LL	LL	II	SSSSSS	SSSSSS	SS	SS	SS	SS	SSSSSSS	SS	
LLLLLLLLLL	LLLLLLLLLL	IIIIII	SSSSSSS	SSSSSSS	SS	SS	SS	SS	SSSSSSS	SS	
LLLLLLLLLL	LLLLLLLLLL	IIIIII	SSSSSSS	SSSSSSS	SS	SS	SS	SS	SSSSSSS	SS	

```
0001 0 XTITLE 'EDTSWRIEDTMSG - write VMSMSG.MSG'
0002 0 MODULE EDTSWRIEDTMSG (
0003 0           IDENT = 'VO4-000',
0004 0           MAIN = EDTSWRIEDTMSG
0005 0           )
0006 1 BEGIN
0007 1 ****
0008 1 ****
0009 1 *
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0030 1 *
0031 1 *
0032 1 **+
0033 1 FACILITY: EDT -- The DEC Standard Editor
0034 1
0035 1 ABSTRACT:
0036 1
0037 1 This module, WRIEDTMSG.FOR, is a FORTRAN program that writes
0038 1 the file VMSMSG.MSG, which is read by the message compiler
0039 1 to produce EDT's run-time messages.
0040 1
0041 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0042 1
0043 1 AUTHOR: John Sauter, CREATION DATE: 23-Jul-1981
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 1-001 - Original, from BASMSG.FOR, created November 3, 1978, last
0048 1 revised September 24, 1979 (version 1-015). JBS 28-Jul-1981
0049 1 1-002 - Don't omit the first message. JBS 03-Aug-1981
0050 1 1-003 - Change output file name to VMSMSG.MSG. JBS 03-Aug-1981
0051 1 1-004 - Fix output file's module name. JBS 06-Aug-1981
0052 1 1-005 - Recoded in BLISS since VMS doesn't like its components to be
0053 1 dependent upon Fortran. JBS 22-Oct-1981
0054 1 1-006 - Change output file name to VMSMSG.TMP. BLS 6-May-1983
0055 1 1-007 - Correct the module header and trailer. JBS 09-May-1983
0056 1 --
0057 1
```

```
59      0058 1 %SBTTL 'Declarations'  
60      0059 1  
61      0060 1 | SWITCHES:  
62      0061 1  
63      0062 1  
64      0063 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
65      0064 1  
66      0065 1 |  
67      0066 1 | LINKAGES:  
68      0067 1 |  
69      0068 1 |     NONE  
70      0069 1  
71      0070 1 | TABLE OF CONTENTS:  
72      0071 1  
73      0072 1  
74      0073 1 | FORWARD ROUTINE  
75      0074 1 |     EDT$WRIEDTMSG,  
76      0075 1 |     WRITE_FILE,  
77      0076 1 |     PRINT,  
78      0077 1 |     HEX_TEXT,  
79      0078 1 |     PRINTABLE_TEXT;  
80      0079 1 |  
81      0080 1 |  
82      0081 1 | INCLUDE FILES:  
83      0082 1 |  
84      0083 1  
85      0084 1 REQUIRE 'EDTSRC:PSECTS.REQ';  
86      0189 1  
87      0190 1 REQUIRE 'EDTSRC:SYSSYM.REQ';  
88      0220 1  
89      0221 1  
90      0222 1 | MACROS:  
91      0223 1  
92      0224 1 |     NONE  
93      0225 1  
94      0226 1 | EQUATED SYMBOLS:  
95      0227 1  
96      0228 1  
97      0229 1 | LITERAL  
98      0230 1 |     EDT$K_FAC_NO = 133;  
99      0231 1 |  
100     0232 1  
101     0233 1 | FIELDS:  
102     0234 1  
103     0235 1 |     NONE  
104     0236 1  
105     0237 1 | STRUCTURES:  
106     0238 1  
107     0239 1 |     NONE  
108     0240 1  
109     0241 1 | PSECTS:  
110     0242 1  
111     0243 1 | DECLARE_PSECTS (EDT);  
112     0244 1 |  
113     0245 1 | OWN STORAGE:  
114     0246 1  
115     0247 1 |     NONE
```

```
116      0248 1     
117      0249 1      ! EXTERNAL REFERENCES:
118      0250 1     
119      0251 1     
120      0252 1      EXTERNAL ROUTINE
121      0253 1      STR$COPY DX,
122      0254 1      STR$CONCAT
123      0255 1      LIB$GET INPUT.
124      0256 1      STR$COPY R,
125      0257 1      STR$FREET DX,
126      0258 1      EDT$MSGTXT;
127      0259 1     

! Copy a string, by descriptor
! Concatenate strings
! Get a line from SYSSINPUT
! Copy a string, by reference
! Free a dynamic string
! Return the text of a message
```

```
129      0260 1 %SBTTL 'Package of macros for string processing'  
130      0261 1 !+  
131      0262 1 ! Macro to initialize a dynamic descriptor.  
132      0263 1 !-  
133      0264 1  
134      0265 1 MACRO  
135      M 0266 1     INIT_DESCRIPTOR (DESCR) =  
136      M 0267 1     DESCRIPTOR [DSC$W_LENGTH] = 0;  
137      M 0268 1     DESCRIPTOR [DSC$B_DTYPE] = DSC$K_DTYPE_T;  
138      M 0269 1     DESCRIPTOR [DSC$B_CLASS] = DSC$K_CLASS_D;  
139      M 0270 1     DESCRIPTOR [DSC$A_POINTER] = 0;  
140      0271 1 %.  
141      0272 1 !<BLF/MACRO>  
142      0273 1 !+  
143      0274 1 ! Macro to discard a dynamic descriptor.  
144      0275 1 !-  
145      M 0276 1     DISCARD_DESCRIPTOR (DESCR) =  
146      M 0277 1     BEGIN  
147      M 0278 1  
148      M 0279 1     LOCAL  
149      M 0280 1     FREE_STATUS;  
150      M 0281 1  
151      M 0282 1     FREE_STATUS = STR$FREE1_DX (DESCR);  
152      M 0283 1  
153      M 0284 1     IF ( NOT .FREE_STATUS) THEN SIGNAL_STOP (.FREE_STATUS);  
154      M 0285 1  
155      M 0286 1     END;  
156      0287 1     %.  
157      0288 1 !+  
158      0289 1 ! Macro to build a text line using FAO. This is a convenience macro.  
159      0290 1 !-  
160      M 0291 1     BUILD_TEXT_LINE (DESCR, CTL_STRING, FAO_ARGS) =  
161      M 0292 1     BEGIN  
162      M 0293 1  
163      M 0294 1     LOCAL  
164      M 0295 1     FAO_STATUS,  
165      M 0296 1     COPY_STATUS;  
166      M 0297 1  
167      M 0298 1     CTL_STR_DSC [DSC$W_LENGTH] = %CHARCOUNT (CTL_STRING);  
168      M 0299 1     CTL_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;  
169      M 0300 1     CTL_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;  
170      M 0301 1     CTL_STR_DSC [DSC$A_POINTER] = CHSPTR (UPLIT (CTL_STRING));  
171      M 0302 1     FAO_STATUS = $FAO (%  
172      M 0303 1     CTL_STR_DSC,  
173      M 0304 1     OUT_LENGTH,  
174      M 0305 1     TEMP_STR_DSC,  
175      M 0306 1     %REMOVE (%FAO_ARGS));  
176      M 0307 1  
177      M 0308 1     IF ( NOT .FAO_STATUS) THEN SIGNAL_STOP (.FAO_STATUS);  
178      M 0309 1  
179      M 0310 1     COPY_STATUS = STR$COPY_R (DESCR, OUT_LENGTH, .TEMP_STR_DSC [DSC$A_POINTER]);  
180      M 0311 1     .COPY_STATUS  
181      M 0312 1     END  
182      0313 1     %.  
183      0314 1 !+  
184      0315 1 ! Macro to format and print a line. Errors are returned to the caller.  
185      0316 1 ! This is a convenience macro.
```

EDTSWRIEDTMSG - write VMSMSG.MSG
V04-000 Package of macros for string processing

E 3
16-Sep-1984 02:18:31 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:25:55 [EDT.SRC]WRIEDTMSG.B32;1

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EDITION
VOL.

```
186      0317 1 !-  
187      M 0318 1 PRINT_LINF (TEXT, VARS) =  
188      M 0319 1 BEGIN  
189      M 0320 1  
190      M 0321 1 LOCAL  
191      M 0322 1     BUILD_STATUS,  
192      M 0323 1     PRINT_STATUS;  
193      M 0324 1  
194      M 0325 1     BUILD_STATUS = BUILD_TEXT_LINE (LINE_DESC, %STRING (%REMOVE (TEXT)), VARS);  
195      M 0326 1  
196      M 0327 1     IF ( NOT .BUILD_STATUS) THEN RETURN (.BUILD_STATUS);  
197      M 0328 1  
198      M 0329 1     PRINT_STATUS = PRINT (.OUTPUT_RAB, LINE_DESC);  
199      M 0330 1  
200      M 0331 1     IF ( NOT .PRINT_STATUS) THEN RETURN (.PRINT_STATUS);  
201      M 0332 1  
202      M 0333 1     END  
203      M 0334 1  
204      M 0335 1 %:
```

```

206      0336 1 %SBTTL 'EDT$WRIEDTMSG - Write VMSMSG.TMP'
207      0337 1 ROUTINE EDT$WRIEDTMSG                      ! Write VMSMSG.TMP
208      0338 1 =
209      0339 1
210      0340 1 ++
211      0341 1 FUNCTIONAL DESCRIPTION:
212      0342 1
213      0343 1 This routine writes the file VMSMSG.TMP.
214      0344 1
215      0345 1 CALLING SEQUENCE:
216      0346 1
217      0347 1     ret_status.wlc.v = EDT$WRIEDTMSG ()
218      0348 1
219      0349 1 FORMAL PARAMETERS:
220      0350 1
221      0351 1     NONE
222      0352 1
223      0353 1 IMPLICIT INPUTS:
224      0354 1
225      0355 1     NONE
226      0356 1
227      0357 1 IMPLICIT OUTPUTS:
228      0358 1
229      0359 1     NONE
230      0360 1
231      0361 1 COMPLETION STATUS:
232      0362 1
233      0363 1     SSS_NORMAL      Normal successful completion
234      0364 1     Any error from LIB$GET_INPUT or STR$FREE1_DX
235      0365 1
236      0366 1 SIDE EFFECTS:
237      0367 1
238      0368 1     Writes a file.
239      0369 1     Any errors from RMSSCREATE, RMSSOPEN, RMSSCONNECT or RMSSCLOSE
240      0370 1     are signalled.
241      0371 1
242      0372 1 --
243      0373 1
244      0374 2 BEGIN
245      0375 2
246      0376 2 LOCAL
247      0377 2     OUTPUT_BUFFER : BLOCK [132, BYTE],           ! output buffer, for RMS
248      0378 2     OUTPUT_FAB : SFAB_DECL,                  ! RMS FAB for the output file
249      0379 2     OUTPUT_NAM : $NAM_DECL,                 ! RMS NAM for the output file
250      0380 2     OUTPL$RAB : SRAB_DECL,                 ! RMS RAB for the output file
251      0381 2     OUTPUT_FILE_NAME_DESC : BLOCK [8, BYTE],   ! Name of output file
252      0382 2     OUTPUT_RESULT_NAME : BLOCK [NAMS$MAXRSS, BYTE]; ! Place to store output file name
253      0383 2
254      0384 2
255      0385 2     OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = %CHARCOUNT ('VMSMSG');
256      0386 2     OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
257      0387 2     OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
258      0388 2     OUTPUT_FILE_NAME_DESC [DSC$A_POINTER] = UPLIT ('VMSMSG');
259      0389 2
260      0390 2     Initialize the FAB, NAM and RAB for the output file
261      0391 2
262      P 0392 2     SFAB_INIT (FAB = OUTPUT_FAB,          !

```

```

263      P 0393 2      FAC = (PUT),
264      P 0394 2      FOP = (OFP, SQ0, DFW),
265      P 0395 2      ORG = SEQ,
266      P 0396 2      SHR = NIL,
267      P 0397 2      MRS = 132,
268      P 0398 2      RAT = CR,
269      P 0399 2      RFM = VAR,
270      P 0400 2      FNA = .OUTPUT_FILE_NAME_DESC [DSC$A_POINTER],
271      P 0401 2      FNS = .OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH],
272      P 0402 2      DNA = UPLIT ('EDTSRC:.TMP'),
273      P 0403 2      DNS = %CHARCOUNT ('EDTSRC:.TMP'),
274      P 0404 2      NAM = OUTPUT_NAM;
275      P 0405 2      $NAM_INIT (NAM = OUTPUT_NAM,
276      P 0406 2      RSA = OUTPUT_RESULT_NAME,
277      P 0407 2      RSS = NAM$C_MAXRSS);
278      P 0408 2      SRAB_INIT (RAB = OUTPUT_RAB,
279      P 0409 2      RAC = SEQ,
280      P 0410 2      ROP = WBH,
281      P 0411 2      USZ = 132,
282      P 0412 2      UBF = OUTPUT_BUFFER,
283      P 0413 2      FAB = OUTPUT_FAB);

284      !+ Create the output file, and do the $CONNECT.
285      0415 2      !- BEGIN
286      0416 2      LOCAL
287      0417 2      `` STATUS,
288      0418 2      ....T_STATUS;
289      0419 3      CREATE_STATUS = $CREATE (FAB = OUTPUT_FAB);
290      0420 3      IF ( NOT .CREATE_STATUS)
291      0421 3      THEN
292      0422 3      SIGNAL_STOP (
293      0423 3      SHRS_OPENOUT + (EDTSK_FAC_NO*65536) + STSSK_SEVERE,
294      0424 3      1,
295      0425 3      OUTPUT_FILE_NAME_DESC,
296      0426 3      .OUTPUT_FAB-[FABSL_STS], .OUTPUT_FAB [FABSL_STV]);
297      0427 3
298      0428 3      0429 3      0430 3      0431 3      0432 3      0433 3      0434 3      0435 3      0436 3      0437 3      0438 3      0439 3      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      CONNECT_STATUS = $CONNECT (RAB = OUTPUT_RAB);
299      0429 3      0430 3      0431 3      0432 3      0433 3      0434 3      0435 3      0436 3      0437 3      0438 3      0439 3      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      IF ( NOT .CONNECT_STATUS)
300      0430 3      THEN
301      0431 3      SIGNAL_STOP (
302      0432 3      SHRS_OPENOUT + (EDTSK_FAC_NO*65536) + STSSK_SEVERE,
303      0433 3      1,
304      0434 3      OUTPUT_FILE_NAME_DESC,
305      0435 3      .OUTPUT_RAB-[RABSL_STS], .OUTPUT_RAB [RABSL_STV]);
306      0436 3
307      0437 3      0438 3      0439 3      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      END;
308      0438 3      0439 3      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      !+ Point the file name descriptor to the resultant name string.
309      0439 3      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = .OUTPUT_NAM [NAMS$B_RSL];
310      0440 3      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
311      0441 3      0442 3      0443 2      0444 2      0445 2      0446 2      0447 2      0448 2      0449 2      OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;

```

EDT\$WRIEDTMSG
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EDT\$WRIEDTMSG - write VMSMSG.MSG
EDT\$WRIEDTMSG - Write VMSMSG.TMP

H 3
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14-Sep-1984 12:25:55 [EDT.SRC]WRIEDTMSG.B32;1

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```
320 0450 2      OUTPUT_FILE_NAME_DESC [DSCSA_POINTER] = .OUTPUT_NAM [NAMSL_RSA];  
321 0451 2  
322 0452 2      IF ( NOT WRITE_FILE (OUTPUT_RAB))  
323 0453 2      THEN  
324 0454 2      SIGNAL_STOP ( !  
325 0455 2      SHRS_WRITEERR + (EDTSK_FAC_NO*65536) + STSSK_SEVERE, !  
326 0456 2      !  
327 0457 2      OUTPUT_FILE_NAME_DESC !  
328 0458 2      .OUTPUT_RAB [RABSL_ST$], .OUTPUT_RAB [RABSL_STV]);  
329 0459 2  
330 0460 2      BEGIN  
331 0461 1+  
332 0462 1+      Close the output file.  
333 0463 1-  
334 0464 1  
335 0465 3      LOCAL  
336 0466 3      CLOSE_STATUS;  
337 0467 3  
338 0468 3      CLOSE_STATUS = $CLOSE (FAB = OUTPUT_FAB);  
339 0469 3  
340 0470 4      IF ( NOT .CLOSE_STATUS)  
341 0471 3      THEN  
342 0472 3      SIGNAL_STOP ( !  
343 0473 3      SHRS_CLOSEOUT + (EDTSK_FAC_NO*65536) + STSSK_SEVERE, !  
344 0474 3      !  
345 0475 3      OUTPUT_FILE_NAME_DESC !  
346 0476 3      .OUTPUT_FAB [FABSL_ST$], .OUTPUT_FAB [FABSL_STV]);  
347 0477 3  
348 0478 2  
349 0479 2      END;  
350 0480 1      RETURN (SS$_NORMAL);  
0480 1      END; ! End of routine EDT$WRIEDTMSG
```

.TITLE EDT\$WRIEDTMSG EDT\$WRIEDTMSG - write VMSMSG.MSG
.IDENT \V04-000\

.PSECT _EDT\$CODE,NOWRT, SHR, PIC.2

00 50 40 54	00 00 47 53	40 53 40 56	00000 P.AAA:	.ASCII \VMSMSG\<0><0>	:
2E 3A 43 52	53 54 44 45	00008 P.AAB:	.ASCII \EDTSRC:.TMP\<0>		
				.EXTRN STR\$COPY DX, STR\$CONCAT	
				.EXTRN LIB\$GET INPUT, STR\$COPY R	
				.EXTRN STR\$FREE1 DX, EDTSMSGTXT	
				.EXTRN SY\$CREATE, SY\$CONNECT	
				.EXTRN SY\$CLOSE	

.EXTRN STR\$COPY DX, STR\$CONCAT
.EXTRN LIB\$GET INPUT, STR\$COPY R
.EXTRN STR\$FREE1 DX, EDTSMSGTXT
.EXTRN SY\$CREATE, SY\$CONNECT
.EXTRN SY\$CLOSE

0050 BF	00	007C 00000 EDT\$WRIEDTMSG:			
				.WORD Save R2,R3,R4,R5,R6	: 0337
		56 0000000G	00 9E 0002	MOVAB LIB\$STOP, R6	
	0100	5E FD80	CE 9E 0009	MOVAB -640(SP), SP	
	0104	CE 010E0006	8F D0 0000E	MOVL #17694726, OUTPUT_FILE_NAME_DESC	: 0385
		D2	AF 9E 00017	MOVAB P.AAA, OUTPUT_FILE_NAME_DESC+4	: 0388
		6E	00 2C 0001D	MOVCS #0, (SP), #0,-#80,\$RMS_PTR	: 0404
		FF2C	CD 00024		
	FF30	CD 5003	8F B0 00027	MOVW #20483, \$RMS_P R	
		CD 20000060	8F D0 0002E	MOVL #536871008, \$RMS_PTR+4	

EDTSWRIEDTMSG
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EDTSWRIEDTMSG - write VMSMSG.MSG
EDTSWRIEDTMSG - Write VMSMSG.TMP

I 3
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			FF42	CD	2001	8F	B0	00037	MOVW	#8193, SRMS PTR+22
			FF49	CD	0200	8F	B0	0003E	MOVW	#512, SRMS PTR+29
			FF4B	CD	FECC	CD	9E	00045	MOVB	#2, \$RMS PTR+31
			FF54	CD	0104	CE	DD	00051	MOVAB	OUTPUT_NAM, SRMS_PTR+40
			FF58	CD	99	AF	9E	00058	MOVL	OUTPUTFILE_NAME_DESC+4, SRMS_PTR+44
			FF5C	CD	0100	CE	90	0005E	MOVAB	P.AAB, SRMS_PTR+48
			FF60	CD	84	OB	90	00065	MOVB	OUTPUTFILE_NAME_DESC, SRMS_PTR+52
			FF61	CD	00	8F	9B	0006A	MOVZBW	#11, SRMS_PTR+53
			FF62	CD	6E	FECC	CD	00070	MOVCS	#132, SRMS_PTR+54
										#0, (SP), #0, #96, SRMS_PTR
0060	8F	00			6002	8F	B0	0007A	MOVW	#24578, SRMS_PTR
			FECC	CD	01	8E	00081	MNEG8	#1, SRMS_PTR+2	
0044	8F	00	FECE	CD	6E	9E	00086	MOVAB	OUTPUT_RESULT_NAME, SRMS_PTR+4	
			FED0	CD	00	2C	0008B	MOVCS	#0, (SP), #0, #68, SRMS_PTR	
					0108	CE	00092			
			0108	CE	4401	8F	B0	00095	MOVW	#17409, SRMS_PTR
			010C	CE	0400	8F	3C	0009C	MOVZWL	#1024, SRMS_PTR+4
					0126	CE	94	000A3	CLRB	\$RMS_PTR+30
			0128	CE	84	8F	9B	000A7	MOVZBW	#132, SRMS_PTR+32
			012C	CE	FF7C	CD	9E	000AD	MOVAB	OUTPUT_BUFFER, SRMS_PTR+36
			FEC4	CD	FF2C	CD	9E	000B4	MOVAB	OUTPUT_FAB, SRMS_PTR+60
					FF2C	CD	9F	000BB	PUSHAB	OUTPUT_FAB
			00000000G	00	01	FB	000BF	CALLS	#1, SYSSCREATE	
				14	50	E8	000C6	BLBS	CREATE_STATUS, 1\$	
				7E	FF34	CD	7D	000C9	MOVQ	OUTPUT_FAB+8, -(SP)
					0108	CE	9F	000CE	PUSHAB	OUTPUT_FILE_NAME_DESC
					01	DD	000D2	PUSHL	#1	
					008510A4	8F	DD	000D4	PUSHL	#8720548
				66	05	FB	000DA	CALLS	#5, LIBSTOP	
			00000000G	00	0108	CE	9F	000DD	PUSHAB	OUTPUT_RAB
				17	01	FB	000E1	CALLS	#1, SYSSCONNECT	
					50	E8	000E8	BLBS	CONNECT_STATUS, 2\$	
					0114	CE	DD	000EB	PUSHL	OUTPUT_RAB+12
					0114	CE	DD	000EF	PUSHL	OUTPUT_RAB+8
					0108	CE	9F	000F3	PUSHAB	OUTPUT_FILE_NAME_DESC
					01	DD	000F7	PUSHL	#1	
					008510A4	8F	DD	000F9	PUSHL	#8720548
				66	05	FB	000FF	CALLS	#5, LIBSTOP	
			0100	CE	FECF	CD	9B	00102	MOVZBW	OUTPUT_NAM+3, OUTPUT_FILE_NAME_DESC
			0102	CE	010E	8F	B0	00109	MOVW	#270, OUTPUT_FILE_NAME_DESC+2
			0104	CE	FED0	CD	DD	00110	MOVL	OUTPUT_NAM+4, OUTPUT_FILE_NAME_DESC+
					0108	CE	9F	00117	PUSHAB	OUTPUT_RAB
			0000V	CF	01	FB	0011B	CALLS	#1, WRITE_FILE	
				17	50	E8	00120	BLBS	R0, 3\$	
					0114	CE	DD	00123	PUSHL	OUTPUT_RAB+12
					0114	CE	DD	00127	PUSHL	OUTPUT_RAB+8
					0108	CE	9F	0012B	PUSHAB	OUTPUT_FILE_NAME_DESC
					01	DD	0012F	PUSHL	#1	
					008510D4	8F	DD	00131	PUSHL	#8720596
				66	05	FB	00137	CALLS	#5, LIBSTOP	
			00000000G	00	FF2C	CD	9F	0013A	PUSHAB	OUTPUT_FAB
				14	01	FB	0013E	CALLS	#1, SYSSCLOSE	
				7E	50	E8	00145	BLBS	CLOSE_STATUS, 4\$	
					FF34	CD	7D	00148	MOVQ	OUTPUT_FAB+8, -(SP)
					0108	CE	9F	0014D	PUSHAB	OUTPUT_FILE_NAME_DESC
					01	DD	00151	PUSHL	#1	

EDT\$WRIEDTMSG
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG
EDT\$WRIEDTMSG - Write VMSMSG.TMP

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EDT\$
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0085105C 8F DD 00153 PUSHL #8720476
66 05 FB 00159 CALLS #5, LIB\$STOP
50 01 DD 0015C 4\$: MOVL #1, R0
 04 0015F RET

; 0473
; 0479
; 0480

; Routine Size: 352 bytes. Routine Base: _EDT\$CODE + 0014

; Rc

```
352 0481 1 %SBTTL 'WRITE_FILE - Actually write the file'  
353 0482 1 ROUTINE WRITE_FILE (  
354 0483 1     OUTPUT_RAB  
355 0484 1     ) =  
356 0485 1 !++  
357 0486 1 FUNCTIONAL DESCRIPTION:  
358 0487 1 This routine writes each record on the specified RAB.  
359 0488 1 CALLING SEQUENCE:  
360 0489 1 ret_status.wlc.v = WRITE_FILE (OUTPUT_RAB.mz.r)  
361 0490 1 FORMAL PARAMETERS:  
362 0491 1     OUTPUT_RAB                                                  RAB onto which to write the text  
363 0492 1 IMPLICIT INPUTS:  
364 0493 1     NONE  
365 0494 1 IMPLICIT OUTPUTS:  
366 0495 1     None  
367 0496 1 COMPLETION STATUS:  
368 0497 1     SSS_NORMAL                                                  Normal successful completion  
369 0498 1     Any errors from RMS $PUT  
370 0499 1 SIDE EFFECTS:  
371 0500 1     Writes on the file connected to OUTPUT_RAB  
372 0501 1 --  
373 0502 1 BEGIN  
374 0503 1 MAP  
375 0504 1     OUTPUT_RAB : REF $RAB_DECL;  
376 0505 1 LOCAL  
377 0506 1 !+  
378 0507 1 !- Stuff for BUILD_TEXT_LINE  
379 0508 1 !+  
380 0509 1 !- CTL_STR_DSC : BLOCK [8, BYTE],  
381 0510 1 !- TEMP_STR_DSC : BLOCK [8, BYTE],  
382 0511 1 !- TEMP_STRING : VECTOR [132, BYTE],  
383 0512 1 !- OUT_LENGTH,  
384 0513 1 !+  
385 0514 1 !- Stuff for PRINT_LINE  
386 0515 1 !+  
387 0516 1 !- LINE_DESC : BLOCK [8, BYTE],  
388 0517 1 !+  
389 0518 2 !- End of stuff for PRINT_LINE  
390 0519 2 !+  
391 0520 2 !-  
392 0521 2 !+  
393 0522 2 !-  
394 0523 2 !+  
395 0524 2 !-  
396 0525 2 !+  
397 0526 2 !-  
398 0527 2 !+  
399 0528 2 !- TEMP_STR_DSC : BLOCK [8, BYTE],  
400 0529 2 !- TEMP_STRING : VECTOR [132, BYTE],  
401 0530 2 !- OUT_LENGTH,  
402 0531 2 !+  
403 0532 2 !- Stuff for PRINT_LINE  
404 0533 2 !+  
405 0534 2 !- LINE_DESC : BLOCK [8, BYTE],  
406 0535 2 !+  
407 0536 2 !- End of stuff for PRINT_LINE  
408 0537 2 !+
```

```
409      0538 2      PRINTABLE_DESC : BLOCK [8, BYTE],  
410      0539 2      HEX_DESC : BLOCK [8, BYTE],  
411      0540 2      TEXT_DESC : BLOCK [8, BYTE],  
412      0541 2      NAME_DESC : BLOCK [8, BYTE],  
413      0542 2      SEVERITY_DESC : BLOCK [8, BYTE],  
414      0543 2      NAME_LENGTH,  
415      0544 2      TEXT_LENGTH,  
416      0545 2      SEVERITY_LENGTH,  
417      0546 2      SEVERITY_ADDR : REF VECTOR [, BYTE];  
418      0547 2  
419      0548 2      !+ Set up TEMP_STR_DSC for BUILD_TEXT_LINE  
420      0549 2      !-  
421      0550 2      TEMP_STR_DSC [DSC$W_LENGTH] = 132;  
422      0551 2      TEMP_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;  
423      0552 2      TEMP_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;  
424      0553 2      TEMP_STR_DSC [DSC$A_POINTER] = CH$PTR (TEMP_STRING);  
425      0554 2  
426      0555 2      !+ Set up LINE_DESC for PRINT_LINE, etc.  
427      0556 2      !-  
428      0557 2      INIT_DESCRIPTOR (LINE_DESC);  
429      0558 2      INIT_DESCRIPTOR (PRINTABLE_DESC);  
430      0559 2      INIT_DESCRIPTOR (HEX_DESC);  
431      0560 2      INIT_DESCRIPTOR (TEXT_DESC);  
432      0561 2      INIT_DESCRIPTOR (NAME_DESC);  
433      0562 2      INIT_DESCRIPTOR (SEVERITY_DESC);  
434      0563 2  
435      0564 2      !+ Put out the initial information.  
436      0565 2      !-  
437      0566 2      PRINT_LINE (<'!!! This file, VMSMSG.TMP, contains the definitions of the EDT'>, <' '>);  
438      0567 2      PRINT_LINE (<'!!! messages for VAX/VMS. This file is read by the MESSAGE compiler'>, <' '>);  
439      0568 2      PRINT_LINE (<'!!! to build an object file containing the EDT messages.'>, <' '>);  
440      0569 2  
441      0570 2      PRINT_LINE (<'!!!'>, <' '>);  
442      0571 2      PRINT_LINE (<'!!!.TITLE EDTSVMSMSG EDT''s message text'>, <' '>);  
443      0572 2      PRINT_LINE (<'!!!'>, <' '>);  
444      0573 2      PRINT_LINE (<'!.FACILITY/SYSTEM EDT, !SL'>, <EDTSK_FAC_NO>);  
445      0574 2  
446      0575 2      !+ Write a line for each message  
447      0576 2      !-  
448      0577 2  
449      0578 2      INCR CODE FROM 0 TO 4095 DO  
450      0579 3      BEGIN  
451      0580 3      EDTSMSGTXT (CODE, SEVERITY_DESC, NAME_LENGTH, NAME_DESC, TEXT_LENGTH, TEXT_DESC);  
452      0581 3  
453      0582 3      !+ If the severity field is blank we are done.  
454      0583 3      !-  
455      0584 3      SEVERITY_ADDR = .SEVERITY_DESC [DSC$A_POINTER];  
456      0585 3  
457      0586 3      IF (.SEVERITY_ADDR [0] EQL ' ') THEN EXITLOOP;  
458      0587 3  
459      0588 3      PRINT_LINE (<'!AS/!AS <!AS>'>, <NAME_DESC, SEVERITY_DESC, TEXT_DESC>);  
460      0589 2  
461      0590 2  
462      0591 2  
463      0592 2      !+ Write out the trailer line  
464      0593 2      !-  
465      0594 2      PRINT_LINE (<'!.END'>, <' '>);
```

```

466 0595 2 |+
467 0596 2 | All done.
468
469 0598 2 |-
470 0599 2 | DISCARD_DESCRIPTOR (LINE_DESC);
471 0600 2 | DISCARD_DESCRIPTOR (PRINTABLE_DESC);
472 0601 2 | DISCARD_DESCRIPTOR (HEX_DESC);
473 0602 2 | DISCARD_DESCRIPTOR (TEXT_DESC);
474 0603 2 | DISCARD_DESCRIPTOR (NAME_DESC);
475 0604 2 | DISCARD_DESCRIPTOR (SEVERITY_DESC);
476 0605 1 | RETURN TSSS_NORMAL);
END;

```

! End of routine WRITE_FILE

```

56 20 2C 65 6C 69 66 20 73 69 68 54 20 21 21 00174 P.AAC: .ASCII \!! This file, VMSMSG.TMP, contains the d\ :
74 6E 6F 63 20 2C 50 4D 54 2E 47 53 4D 53 40 00183
74 20 66 6F 20 73 6E 6F 69 74 69 6E 69 66 65 00192
74 20 66 6F 20 73 6E 6F 69 74 69 6E 69 66 65 0019C
72 6F 66 20 73 65 67 61 73 73 65 60 20 21 21 001B4 P.AAD: .ASCII \!! messages for VAX/VMS. This file is r\
73 69 68 54 20 20 2E 53 4D 56 2F 58 41 56 20 001C3
53 53 45 40 20 65 68 74 20 79 62 20 64 61 65 001DC
00 72 65 6C 69 70 60 6F 63 20 45 47 41 001EB
20 6E 61 20 64 6C 69 75 62 20 6F 74 20 21 21 001F8 P.AAE: .ASCII \!! to build an object file containing th\
6E 6F 63 20 65 6C 69 66 20 74 63 65 6A 62 6F 00207
2E 73 65 67 61 73 73 65 6D 20 54 44 45 20 65 00216
          00 00220
          00 0022F
          .ASCII \e EDT messages.\<0>
20 45 4C 54 49 54 2E 20 20 20 20 20 00 00 21 21 00230 P.AAF: .ASCII \!!\<0>\<0>
27 54 44 45 20 47 53 4D 53 4D 56 24 54 44 45 00234 P.AAG: .ASCII \ \ .TITLE EDTSVMSMSG EDT's message \
          20 65 67 61 73 73 65 6D 20 73 00252
          74 78 65 74 0025C
          00 00 21 21 00260 P.AAH: .ASCII \!!\<0>\<0>
45 54 53 59 53 2F 59 54 49 4C 49 43 41 46 2E 00264 P.AAI: .ASCII \.FACILITY/SYSTEM EDT, !SL\<0>\<0>\<0>
00 00 00 00 4C 53 21 20 2C 54 44 45 20 4D 00273
00 00 3E 53 41 21 3C 20 53 41 21 2F 53 41 21 00280 P.AAJ: .ASCII \!AS!/AS <!AS>\<0>\<0>\<0>
          00 0028F
          44 4E 45 2E 00290 P.AAK: .ASCII \.END\
          .EXTRN SYS$FAO

```

01FC 00000 WRITE_FILE:

			.WORD	Save R2,R3,R4,R5,R6,R7,R8	; 0482	
	58	0000V	CF	9E 00002	MOVAB	PRINT, R8
	57	00000000G	00	9E 00007	MOVAB	STR\$FREE1 DX, R7
	56	00000000G	00	9E 0000E	MOVAB	STR\$COPY_R R6
	55	00000000G	00	9E 00015	MOV	SY\$FAO, -R5
	54	00000000G	00	9E 0001C	MOVAD	LIB\$STOP, R4
F0	5E	FF2C	CE	9E 00023	MOVAB	-212(SP), SP
F4	AD	010E0084	8F	D0 00028	MOVL	#17694852, TEMP STR_DSC
38	AD	40	AE	9E 00030	MOVAB	TEMP STRING, TEMP STR_DSC+4
	AE	020E0000	8F	D0 00035	MOVL	#34471936, LINE_DESC
		3C	AE	D4 0003D	CLRL	LINE_DESC+4
30	AE	020E0000	8F	D0 00040	MOVL	#34471936, PRINTABLE_DESC
		34	AE	D4 00048	CLRL	PRINTABLE_DESC+4

EDT\$WRIEDTMSG
VO4-000EDT\$WRIEDTMSG - write VMSMSG.MSG
WRITE_FILE - Actually write the fileN 3
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28	AE 020E0000	8F	DD 0004B	MOVL	#34471936, HEX_DESC	: 0560
20	AE 020E0000	2C	AE D4 00053	CLRL	HEX_DESC+4	: 0561
18	AE 020E0000	24	AE D4 00056	MOVL	#34471936, TEXT_DESC	: 0562
10	. E 020E0000	1C	AE D4 00061	CLRL	TEXT_DESC+4	: 0563
F8	AD 010E003D	14	AE D4 00069	MOVL	#34471936, NAME_DESC	: 0567
FC	AD FE5D	8F	DD 00074	CLRL	NAME_DESC+4	
		CF	9E 00077	MOVL	#34471936, SEVERITY_DESC	
		20	DD 00085	CLRL	SEVERITY_DESC+4	
		F0	AD 9F 00087	MOVAB	#17694787, CTL_STR_DSC	
		14	AE 9F 0008A	PUSHL	P.AAC, CTL_STR_DSC+4	
		F8	AD 9F 0008D	PUSHL	#32	
65		04	FB 00090	PUSHAB	TEMP_STR_DSC	
05		50	E8 00093	PUSHAB	OUT_LENGTH	
		50	DD 00096	PUSHAB	CTL_STR_DSC	
64		01	FB 00098	CALLS	#4, SYS\$FAO	
		F4	AD DD 0009B	BLBS	FAO_STATUS, 1\$	
66		10	AE 9F 0009E	PUSHL	FAO_STATUS	
7D		40	AE 9F 000A1	CALLS	#1, LIB\$STOP	
		03	FB 000A4	PUSHL	TEMP_STR_DSC+4	
		50	E9 000A7	PUSHAB	OUT_LENGTH	
52		38	AE 9F 000AA	PUSHAB	LINE_DESC	
		04	AC DD 000AD	CALLS	#3, STRSCOPY_R	
		52	DD 000B1	BLBC	BUILD_STATUS, 4\$	
68		02	FB 000B3	PUSHL	LINE_DESC	
		50	E9 000B6	MOVL	OUTPUT_RAB, R2	
F8	AD 010E0043	8F	DO 000B9	PUSHL	R2	
FC	AD FE5B	CF	9E 000C1	CALLS	#2, PRINT	
		20	DD 000C7	BLBC	PRINT_STATUS, 5\$	
		F0	AD 9F 000C9	MOVL	#17694787, CTL_STR_DSC	
		14	AE 9F 000CC	MOVAB	P.AAD, CTL_STR_DSC+4	
		F8	AD 9F 000CF	PUSHL	#32	
65		04	FB 000D2	PUSHAB	TEMP_STR_DSC	
05		50	E8 000D5	PUSHAB	OUT_LENGTH	
		50	DD 000D8	PUSHAB	CTL_STR_DSC	
64		01	FB 000DA	CALLS	#4, SYS\$FAO	
		F4	AD DD 000DD	BLBS	FAO_STATUS, 2\$	
		10	AE 9F 000E0	PUSHL	FAO_STATUS	
		40	AE 9F 000E3	CALLS	#1, LIB\$STOP	
66		03	FB 000E6	PUSHL	TEMP_STR_DSC+4	
79		50	E9 000E9	PUSHAB	OUT_LENGTH	
		38	AE 9F 000EC	PUSHAB	LINE_DESC	
		52	DD 000EF	CALLS	#3, STRSCOPY_R	
68		02	FB 000F1	BLBC	BUILD_STATUS, 7\$	
		50	E9 000F4	PUSHL	LINE_DESC	
F8	AD 010E0037	8F	DO 000F7	MOVL	R2	
FC	AD FE61	CF	9E 000FF	CALLS	#2, PRINT	
		20	DD 00105	BLBC	PRINT_STATUS, 8\$	
		F0	AD 9F 00107	MOVL	#17694775, CTL_STR_DSC	
		14	AE 9F 0010A	MOVAB	P.AAE, CTL_STR_DSC+4	
		F8	AD 9F 0010D	PUSHL	#32	
65		04	FB 00110	PUSHAB	TEMP_STR_DSC	
05		50	E8 00113	PUSHAB	OUT_LENGTH	
		50	DD 00116	PUSHAB	CTL_STR_DSC	
64		01	FB 00118	CALLS	#4, SYS\$FAO	
				BLBS	FAO_STATUS, 3\$	
				PUSHL	FAO_STATUS	
				CALLS	#1, LIB\$STOP	

EDT\$WRIEDTMSG
V04-000 EDT\$WRIEDTMSG - write VMSMSG.MSG
WRITE_FILE - Actually write the file

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F4 AD DD 0011B 3\$: PUSHL TEMP STR DSC+4
10 AE 9F 0011E PUSHAB OUT LENGTH
40 AE 9F 00121 PUSHAB LINE DESC
66 03 FB 00124 CALLS #3, STR\$COPY_R
79 50 E9 00127 4\$: BLBC BUILD STATUS, 10\$
38 AE 9F 0012A PUSHAB LINE_DESC
52 DD 0012D PUSHL R2
68 02 FB 0012F CALLS #2, PRINT
79 50 E9 00132 5\$: BLBC PRINT STATUS, 11\$
F8 AD 010E0002 8F D0 00135 MOVL #17694722, CTL_STR_DSC
FC AD FE5B CF 9E 0013D MOVAB P.AAF, CTL_STR_DSC+4
20 DD 00143 PUSHL #32
F0 AD 9F 00145 PUSHAB TEMP STR DSC
14 AE 9F 00148 PUSHAB OUT LENGTH
F8 AD 9F 0014B PUSHAB CTL_STR_DSC
65 04 FB 0014E CALLS #4, SYSSFAO
05 50 E8 00151 BLBS FAO_STATUS, 6\$
50 DD 00154 PUSHL FAO_STATUS
64 01 FB 00156 CALLS #1, LIB\$STOP
F4 AD DD 00159 6\$: PUSHL TEMP STR DSC+4
10 AE 9F 0015C PUSHAB OUT LENGTH
40 AE 9F 0015F PUSHAB LINE DESC
66 03 FB 00162 CALLS #3, STR\$COPY_R
79 50 E9 00165 7\$: BLBC BUILD STATUS, 13\$
38 AE 9F 00168 PUSHAB LINE_DESC
52 DD 0016B PUSHL R2
68 02 FB 0016D CALLS #2, PRINT
79 50 E9 00170 8\$: BLBC PRINT STATUS, 14\$
F8 AD 010E002C 8F D0 00173 MOVL #17694764, CTL_STR_DSC
FC AD FE21 CF 9E 0017B MOVAB P.AAG, CTL_STR_DSC+4
20 DD 00181 PUSHL #32
F0 AD 9F 00183 PUSHAB TEMP STR DSC
14 AE 9F 00186 PUSHAB OUT LENGTH
F8 AD 9F 00189 PUSHAB CTL_STR_DSC
65 04 FB 0018C CALLS #4, SYSSFAO
05 50 E8 0018F BLBS FAO_STATUS, 9\$
50 DD 00192 PUSHL FAO_STATUS
64 01 FB 00194 CALLS #1, LIB\$STOP
F4 AD DD 00197 9\$: PUSHL TEMP STR DSC+4
10 AE 9F 0019A PUSHAB OUT LENGTH
40 AE 9F 0019D PUSHAB LINE DESC
66 03 FB 001A0 CALLS #3, STR\$COPY_R
78 50 E9 001A3 10\$: BLBC BUILD STATUS, 16\$
38 AE 9F 001A6 PUSHAB LINE_DESC
52 DD 001A9 PUSHL R2
68 02 FB 001AB CALLS #2, PRINT
78 50 E9 001AE 11\$: BLBC PRINT STATUS, 17\$
F8 AD 010E0002 8F D0 001B1 MOVL #17694722, CTL_STR_DSC
FC AD FEOF CF 9E 001B9 MOVAB P.AAH, CTL_STR_DSC+4
20 DD 001BF PUSHL #32
F0 AD 9F 001C1 PUSHAB TEMP STR DSC
14 AE 9F 001C4 PUSHAB OUT LENGTH
F8 AD 9F 001C7 PUSHAB CTL_STR_DSC
65 04 FB 001CA CALLS #4, SYSSFAO
05 50 E8 001CD BLBS FAO_STATUS, 12\$
50 DD 001D0 PUSHL FAO_STATUS
64 01 FB 001D2 CALLS #1, LIB\$STOP

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		F4	AD	DD 001D5	12\$:	PUSHL	TEMP STR DSC+4		
		10	AE	9F 001D8		PUSHAB	OUT LENGTH		
		40	AE	9F 001DB		PUSHAB	LINE DESC		
		66	03	FB 001DE		CALLS	#3, STR\$COPY_R		
		48	50	E9 001E1	13\$:	BLBC	BUILD STATUS, 17\$		
			38	AE	9F 001E4	PUSHAB	LINE_DESC		
				52	DD 001E7	PUSHL	R2		
				68	02	FB 001E9	CALLS	#2, PRINT	
		F8	50	E9 001EC	14\$:	BLBC	PRINT STATUS, 17\$		
	FC	AD	010E0019	8F	DO 001EF	MOVL	#17694745, CTL_STR_DSC	0573	
		AD	FDD5	CF	9E 001F7	MOVAB	P.AAI, CTL_STR_DSC+4		
		7E	85	8F	9A 001FD	MOVZBL	#133, -(SPT)		
			F0	AD	9F 00201	PUSHAB	TEMP STR DSC		
			14	AE	9F 00204	PUSHAB	OUT LENGTH		
			F8	AD	9F 00207	PUSHAB	CTL_STR DSC		
			65	04	FB 0020A	CALLS	#4, SYSSFAO		
			05	50	E8 0020D	BLBS	FAO_STATUS, 15\$		
			64	50	DD 00210	PUSHL	FAO_STATUS		
				01	FB 00212	CALLS	#1, LIB\$STOP		
				F4	AD	DD 00215	15\$:		
				10	AE	9F 00218	PUSHL	TEMP STR DSC+4	
				40	AE	9F 0021B	PUSHAB	OUT LENGTH	
			66	03	FB 0021E	PUSHAB	LINE DESC		
			72	50	E9 00221	16\$:	BLBC	BUILD STATUS, 20\$	
				38	AE	9F 00224	PUSHAB	LINE_DESC	
					52	DD 00227	PUSHL	R2	
			68	02	FB 00229	CALLS	#2, PRINT		
			67	50	E9 0022C	17\$:	BLBC	PRINT_STATUS, 20\$	
				08	AE	D4 0022F	CLRL	CODE	0578
				20	AE	9F 00232	18\$:	CODE	0580
				04	AE	9F 00235	PUSHAB	TEXT_DESC	
				20	AE	9F 00238	PUSHAB	TEXT_LENGTH	
				10	AE	9F 0023B	PUSHAB	NAME_DESC	
				20	AE	9F 0023E	PUSHAB	NAME_LENGTH	
				1C	AE	9F 00241	PUSHAB	SEVERITY_DESC	
		00000000G	00	06	FB 00244	CALLS	#6, EDTSMSGTXT		
			53	14	AE	DO 0024B	MOVL	SEVERITY_DESC+4, SEVERITY_ADDR	0584
			20	63	91 0024F	CMPB	(SEVERITY_ADDR), #32	0586	
	F8	AD	010E0C0D	8F	DO 00254	BEQL	21\$		
	FC	AD	FD8C	CF	9E 0025C	MOVL	#17694733, CTL_STR_DSC	0588	
				20	AE	9F 00262	MOVAB	P.AAJ, CTL_STR_DSC+4	
				14	AE	9F 00265	PUSHAB	TEXT_DESC	
				20	AE	9F 00268	PUSHAB	SEVERITY_DESC	
				F0	AD	9F 0026B	PUSHAB	NAME_DESC	
				1C	AE	9F 0026E	PUSHAB	TEMP_STR_DSC	
				F8	AD	9F 00271	PUSHAB	OUT_LENGTH	
			65	06	FB 00274	CALLS	#6, SYSSFAO		
			05	50	E8 00277	BLBS	FAO_STATUS, 19\$		
			64	50	DD 0027A	PUSHL	FAO_STATUS		
				01	FB 0027C	CALLS	#1, LIB\$STOP		
				F4	AD	DD 0027F	19\$:		
				10	AE	9F 00282	PUSHL	TEMP STR DSC+4	
				40	AE	9F 00285	PUSHAB	OUT LENGTH	
			66	03	FB 00288	PUSHAB	LINE DESC		
	4F			50	E9 0028B	CALLS	#3, STR\$COPY_R		
				38	AE	9F 0028E	BLBC	BUILD STATUS, 23\$	
						PUSHAB	LINE_DESC		

EDTSWRIEDTMSG - write VMSMSG.MSG
VO4-000 **WRITE_FILE** - Actually write the file

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90	68	52	DD 00291	PUSHL	R2	
	44	02	FB 00293	CALLS	#2, PRINT	
	08	50	E9 00296	20\$:	PRINT_STATUS, 23\$	
	F8	8F	F3 00299	BLBC	#4095-CODE, 18\$	
	AD	8F	DD 002A2	AOBLEQ	#17694724, CTL_STR_DSC	
	FC	AD	CF 002AA	MOVL	P_AAK, CTL_STR_DSC+4	
		20	DD 002B0	MOVAB	#32	
		F0	AD 9F 002B2	PUSHL	TEMP_STR_DSC	
		14	AE 9F 002B5	PUSHAB	OUT_LENGTH	
		F8	AD 9F 002B8	PUSHAB	CTL_STR_DSC	
	65	04	FB 002BB	CALLS	#4, SYS\$FAO	
	05	50	E8 002BE	BLBS	FAO_STATUS, 22\$	
		50	DD 002C1	PUSHL	FAO_STATUS	
	64	01	FB 002C3	CALLS	#1, LIB\$STOP	
		F4	AD DD 002C6	22\$:	TEMP_STR_DSC+4	
		10	AE 9F 002C9	PUSHAB	OUT_LENGTH	
		40	AE 9F 002CC	PUSHAB	LINE_DESC	
	66	03	FB 002CF	CALLS	#3, STR\$COPY_R	
	62	50	E9 002D2	BLBC	BUILD_STATUS, 30\$	
		38	AE 9F 002D5	PUSHAB	LINE_DESC	
		52	DD 002D8	PUSHL	R2	
	68	02	FB 002DA	CALLS	#2, PRINT	
	57	50	E9 002DD	23\$:	PRINT_STATUS, 30\$	
		38	AE 9F 002E0	PUSHAB	LINE_DESC	0598
	67	01	FB 002E3	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 002E6	BLBS	FREE_STATUS, 24\$	
		50	DD 002E9	PUSHL	FREE_STATUS	
	64	01	FB 002EB	CALLS	#1, LIB\$STOP	
		30	AE 9F 002EE	24\$:	PRINTABLE_DESC	0599
	67	01	FB 002F1	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 002F4	BLBS	FREE_STATUS, 25\$	
		50	DD 002F7	PUSHL	FREE_STATUS	
	64	01	FB 002F9	CALLS	#1, LIB\$STOP	
		28	AE 9F 002FC	25\$:	HEX_DESC	0600
	67	01	FB 002FF	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 00302	BLBS	FREE_STATUS, 26\$	
		50	DD 00305	PUSHL	FREE_STATUS	
	64	01	FB 00307	CALLS	#1, LIB\$STOP	
		20	AE 9F 0030A	26\$:	TEXT_DESC	0601
	67	01	FB 0030D	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 00310	BLBS	FREE_STATUS, 27\$	
		50	DD 00313	PUSHL	FREE_STATUS	
	64	01	FB 00315	CALLS	#1, LIB\$STOP	
		18	AE 9F 00318	27\$:	NAME_DESC	0602
	67	01	FB 0031B	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 0031E	BLBS	FREE_STATUS, 28\$	
		50	DD 00321	PUSHL	FREE_STATUS	
	64	01	FB 00323	CALLS	#1, LIB\$STOP	
		10	AE 9F 00326	28\$:	SEVERITY_DESC	0603
	67	01	FB 00329	CALLS	#1, STR\$FREE1 DX	
	05	50	E8 0032C	BLBS	FREE_STATUS, 29\$	
		50	DD 0032F	PUSHL	FREE_STATUS	
	64	01	FB 00331	CALLS	#1, LIB\$STOP	
	50	01	DD 00334	29\$:	MOVL	0604
		04	00337	30\$:	RET	0605

; Routine Size: 824 bytes, Routine Base: _EDT\$CODE + 0294

EDT\$WRIEDTMSG
V04-000 EDT\$WRIEDTMSG - write VM\$MSG.MSG
 WRITE_FILE - Actually write the file

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EDT\$
V04-

```

478 0606 1 XSBTTL 'PRINT - print a text line on a file'
479 0607 1 ROUTINE PRINT (
480 0608 1   RAB_ADDR
481 0609 1   TEXT_LINE
482 0610 1   ) =
483 0611 1
484 0612 1 ++
485 0613 1 FUNCTIONAL DESCRIPTION:
486 0614 1
487 0615 1 This routine interfaces to RMS to print a line of text.
488 0616 1
489 0617 1 CALLING SEQUENCE:
490 0618 1
491 0619 1   ret_status.wlc.v = PRINT (RAB_ADDR.mz.r, TEXT_LINE.rt.dx)
492 0620 1
493 0621 1 FORMAL PARAMETERS:
494 0622 1
495 0623 1   RAB_ADDR           Pointer to the RAB onto which to print the line of text
496 0624 1   TEXT_LINE          Descriptor for the line of text to be printed.
497 0625 1
498 0626 1 IMPLICIT INPUTS:
499 0627 1
500 0628 1   NONE
501 0629 1
502 0630 1 IMPLICIT OUTPUTS:
503 0631 1
504 0632 1   NONE
505 0633 1
506 0634 1 COMPLETION STATUS:
507 0635 1
508 0636 1   SSS_NORMAL      Normal successful completion
509 0637 1   All RMS errors are returned to the caller, so that they can be
510 0638 1   signalled with the file name.
511 0639 1
512 0640 1 SIDE EFFECTS:
513 0641 1
514 0642 1   Does a $PUT to the RAB.
515 0643 1
516 0644 1 !--
517 0645 1
518 0646 2 BEGIN
519 0647 2
520 0648 2 MAP
521 0649 2   RAB_ADDR : REF $RAB_DECL,
522 0650 2   TEXT_LINE : REF BLOCK [8; BYTE];
523 0651 2
524 0652 2 LOCAL
525 0653 2   PUT_STATUS;
526 0654 2
527 0655 2 !
528 0656 2   Fill in the RAB fields.
529 0657 2 -
530 0658 2   RAB_ADDR [RAB$W_RSZ] = .TEXT_LINE [DSC$W_LENGTH];
531 0659 2   RAB_ADDR [RAB$L_RBF] = .TEXT_LINE [DSC$A_POINTER];
532 0660 2 !
533 0661 2   Now do the $PUT
534 0662 2 !-

```

EDTSWRIEDTMSG
V04-000

EDTSWRIEDTMSG - write VMSMSG.MSG
PRINT - print a text line on a file

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EDTS
V04-

```
: 535      0663 2    PUT_STATUS = $PUT (RAB = .RAB_ADDR);
: 536      0664 2    IF ( NOT .PUT_STATUS) THEN RETURN (.PUT_STATUS);
: 537      0665 2
: 538      0666 2
: 539      0667 2    RETURN (SSS_NORMAL);
: 540      0668 1    END;                                ! End of routine PRINT
```

End of routine PRINT

.EXTRN SYSSPUT

			0000	00000	PRINT:	.WORD	Save nothing
	51	04	AC	DO	00002	MOVL	RAB_ADDR, R1
	50	08	AC	DO	00006	MOVL	TEXT_LINE, R0
22	A1		60	BO	0000A	MOVW	(R0), 34(R1)
28	A1	04	A0	DO	0000E	MOVL	4(R0), 40(R1)
			51	DD	00013	PUSHL	R1
00000000G	00		01	FB	00015	CALLS	#1, SYSPUT
	03		50	E9	0001C	BLBC	PUT_STATUS, 1\$
	50		01	DO	0001F	MOVL	#1, R0
			04	00022	1\$:	RET	

; Routine Size: 35 bytes, Routine Base: _EDT\$CODE + 05CC

```
542 0669 1 %SBTTL 'HEX_TEXT - Return a binary string in hexadecimal'
543 0670 1 ROUTINE HEX_TEXT (
544 0671 1     OUTPUT DESC,
545 0672 1     INPUT LEN,
546 0673 1     INPUT_ADDR,
547 0674 1     ) =
548
549 0675 1 !++
550 0677 1 FUNCTIONAL DESCRIPTION:
551 0678 1
552 0679 1 This routine converts an arbitrary string of bytes into hex, so it
553 0680 1 can be printed. Early bytes are put to the right of later bytes.
554 0681 1
555 0682 1 CALLING SEQUENCE:
556 0683 1
557 0684 1     status.wlc.v = HEX_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR.ra.v)
558 0685 1
559 0686 1 FORMAL PARAMETERS:
560 0687 1
561 0688 1     output_desc      Where the result text is stored.
562 0689 1     input_len        Number of bytes of input
563 0690 1     input_addr       Address of first input byte
564 0691 1
565 0692 1 IMPLICIT INPUTS:
566 0693 1
567 0694 1     NONE
568 0695 1
569 0696 1 IMPLICIT OUTPUTS:
570 0697 1
571 0698 1     NONE
572 0699 1
573 0700 1 COMPLETION STATUS:
574 0701 1
575 0702 1     SSS_NORMAL      Normal successful completion
576 0703 1     Any errors from STR$CONCAT
577 0704 1     Any errors from STR$COPY_DX
578 0705 1
579 0706 1 SIDE EFFECTS:
580 0707 1
581 0708 1     Calls STR$CONCAT and STR$COPY_DX, thus manipulating string storage.
582 0709 1
583 0710 1 --+
584 0711 1
585 0712 2 BEGIN
586 0713 2
587 0714 2 MAP
588 0715 2     INPUT_ADDR : REF VECTOR [ BYTE ],
589 0716 2     OUTPUT_DESC : REF BLOCK [8, BYTE];
590 0717 2
591 0718 2 LOCAL
592 0719 2     INTER_DESC : BLOCK [8, BYTE],
593 0720 2     DIGIT_DESC : BLOCK [8, BYTE],
594 0721 2     DIGIT,
595 0722 2     STATUS;
596 0723 2
597 0724 2 INIT_DESCRIPTOR (INTER_DESC);
598 0725 2     DIGIT_DESC [DSC$W_LENGTH] = {;
```

```

599      0726 2      DIGIT_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
600      0727 2      DIGIT_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
601      0728 2      DIGIT_DESC [DSC$A_POINTER] = DIGIT;
602      0729 2
603      0730 2      INCR CHAR_NO FROM 1 TO .INPUT_LEN DO
604      0731 2      BEGIN
605      0732 2
606      0733 3      LOCAL
607      0734 3      CHAR:
608      0735 3
609      0736 3      CHAR = .INPUT_ADDR [.CHAR_NO - 1];
610      0737 3      DIGIT = (.CHAR AND 15) + '0';
611      0738 3
612      0739 3      IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
613      0740 3
614      0741 3      STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
615      0742 3
616      0743 3      IF ( NOT .STATUS) THEN RETURN (.STATUS);
617      0744 3
618      0745 3      DIGIT = (.CHAR^4) + '0';
619      0746 3
620      0747 3      IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
621      0748 3
622      0749 3      STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
623      0750 3
624      0751 3      IF ( NOT .STATUS) THEN RETURN (.STATUS);
625      0752 3
626      0753 2
627      0754 2      END;
628      0755 2      STATUS = STR$COPY DX (.OUTPUT_DESC, INTER_DESC);
629      0756 2      DISCARD_DESCRIPTOR (INTER_DESC);
630      0757 2      RETURN ?.STATUS;
631      0758 1      END;                                ! End of routine HEX_TEXT

```

003C 00000 HEX_TEXT:

				.WORD	Save R2,R3,R4,R5	0670
		55 0000000G	00 9E 00002	MOVAB	STR\$CONCAT, R5	
		5E 020E0000	14 C2 00009	SUBL2	#20, SP	0724
	OC	AE 020E0000	8F D0 0000C	MOVL	#36471936, INTER_DESC	
		10 AE 010E0001	AE D4 00014	CLRL	INTER_DESC+4	0725
	04	AE 010E0001	8F D0 00017	MOVL	#17694721, DIGIT_DESC	
	08	AE 010E0001	6E 9E 0001F	MOVAB	DIGIT, DIGIT_DESC+4	0728
			53 D4 00023	CLRL	CHAR_NO	0736
			4E 11 00025	BRB	4\$	
	50	53 OC AC C1 00027	18:	ADDL3	INPUT_ADDR, CHAR_NO, R0	
6E	52	FF A0 9A 0002C		MOVZBL	-1(R0), CHAR	0737
	04	00 EF 00030		EXTZV	#0, #4, CHAR, DIGIT	
	6E	30 C0 00035		ADDL2	#48, DIGIT	0739
	39	6E D1 00038		CMPL	DIGIT, #57	
	6E	03 15 00038		BLEQ	2\$	
		07 C0 0003D		ADDL2	#7, DIGIT	
	0C	AE 9F 00040	28:	PUSHAB	INTER_DESC	0741
	08	AE 9F 00043		PUSHAB	DIGIT_DESC	

EDT\$WRIEDTMSG
VO4-000

EDT\$WRIEDTMSG - write VMSMSG.MSG
HEX_TEXT - Return a binary string in hexadecima

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EXE1
Modu

FPL
VAX1
SYS

		14	AE	9F 00046	PUSHAB	INTER DESC		
		65	03	FB 00049	CALLS	#3, STR\$CONCAT		
		54	50	DO 0004C	MOVL	R0, STATUS	0743	
		4E	54	E9 0004F	BLBC	STATUS, SS	0745	
	52	52	FC	8F 78 00052	ASHL	#-4, CHAR, R2		
		6E	30	A2 9E 00057	MOVAB	48(A2), DIGIT		
		39		6E D1 0005B	CMPL	DIGIT, #57	0747	
				03 15 0005E	BLEQ	3\$		
		6E		07 C0 00060	ADDL2	#7, DIGIT		
			0C	AE 9F 00063	3\$: PUSHAB	INTER DESC	0749	
			08	AE 9F 00066	3\$: PUSHAB	DIGIT DESC		
			14	AE 9F 00069	3\$: PUSHAB	INTER DESC		
		65	03	FB 0006C	CALLS	#3, STR\$CONCAT		
		54	50	DO 0006F	MOVL	R0, STATUS		
		28	54	E9 00072	BLBC	STATUS, SS	0751	
	AD	53	08	AC F3 00075	4\$: AOBLEQ	INP JT LEN, CHAR_NO, 1\$		
			0C	AE 9F 0007A	4\$: PUSHAB	INTER DESC	0750	
			04	AC DD 0007D	PUSHL	OUTPUT DESC	0755	
	00000000G	00	02	FB 00080	CALLS	#2, STR\$COPY_DX		
		54	50	DO 00087	MOVL	R0, STATUS		
	00000000G	00	0C	AE 9F 0008A	PUSHAB	INTER DESC	0756	
			01	FB 0008D	CALLS	#1, STR\$FREE1 DX		
		09	50	E8 00094	BLBS	FREE STATUS, SS		
	00000000G	00		50 DD 00097	PUSHL	FREE STATUS		
			01	FB 00099	CALLS	#1, [IB\$STOP		
		50	54	DO 000A0	5\$: MOVL	STATUS, R0	0757	
				04 000A3	RET		0758	

; Routine Size: 164 bytes, Routine Base: _EDT\$CODE + 05EF

633 0759 1 %SBTTL 'PRINTABLE_TEXT - Return a binary string in ASCII, printable'
634 0760 1 ROUTINE PRINTABLE_TEXT (| Return a binary string in printable ASCII
635 0761 1 OUTPUT_DESC, | Descriptor to receive the text
636 0762 1 INPUT_LEN, | Number of input bytes
637 0763 1 INPUT_ADDR | Address of start of input
638 0764 1) =
639 0765 1
640 0766 1 !++
641 0767 1 FUNCTIONAL DESCRIPTION:
642 0768 1
643 0769 1 This routine converts an arbitrary string of bytes into ASCII, representing
644 0770 1 unprintable characters in hexadecimal so the result can be printed.
645 0771 1
646 0772 1 CALLING SEQUENCE:
647 0773 1
648 0774 1 status.wlc.v = PRINTABLE_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR.ra.v)
649 0775 1
650 0776 1 FORMAL PARAMETERS:
651 0777 1
652 0778 1 OUTPUT_DESC Where the result text is stored.
653 0779 1 INPUT_LEN Number of bytes of input
654 0780 1 INPUT_ADDR Address of first input byte
655 0781 1
656 0782 1 IMPLICIT INPUTS:
657 0783 1
658 0784 1 NONE
659 0785 1
660 0786 1 IMPLICIT OUTPUTS:
661 0787 1
662 0788 1 NONE
663 0789 1
664 0790 1 COMPLETION STATUS:
665 0791 1
666 0792 1 SSS_NORMAL Normal successful completion
667 0793 1 Any errors from STR\$CONCAT
668 0794 1 Any errors from STR\$COPY_DX
669 0795 1
670 0796 1 SIDE EFFECTS:
671 0797 1
672 0798 1 Calls STR\$CONCAT and STR\$COPY_DX, thus manipulating string storage.
673 0799 1
674 0800 1 --
675 0801 1
676 0802 2 BEGIN
677 0803 2
678 0804 2 MAP
679 0805 2 INPUT_ADDR : REF VECTOR [, BYTE]
680 0806 2 OUTPUT_DESC : REF BLOCK [8, BYTE];
681 0807 2
682 0808 2 LOCAL
683 0809 2 INTER_DESC : BLOCK [8, BYTE],
684 0810 2 CHAR_DESC : BLOCK [8, BYTE],
685 0811 2 CHAR REP : VECTOR [4, BYTE],
686 0812 2 STATUS;
687 0813 2
688 0814 2 INIT_DESCRIPTOR (INTER_DESC);
689 0815 2 CHAR_DESC [DSC\$W_LENGTH] = 1;

```
690      0816 2     CHAR_DESC [DSCSB_DTYPE] = DSCSK_DTYPE_T;
691      0817 2     CHAR_DESC [DSCSB_CLASS] = DSCSK_CLASS_S;
692      0818 2     CHAR_DESC [DSCSA_POINTER] = CHAR REP [0];
693      0819 2
694      0820 2     INCR CHAR_NO FROM 1 TO .INPUT_LEN DO
695      0821 3     BEGIN
696      0822 3
697      0823 3     LOCAL
698      0824 3         CHAR;
699      0825 3
700      0826 3         CHAR = .INPUT_ADDR [.CHAR_NO - 1];
701      0827 3
702      0828 4     IF ((.CHAR GEQ XX'20') AND
703      0829 4         (.CHAR LSS XX'7F') AND
704      0830 4         (.CHAR NEQ '<') AND
705      0831 4         (.CHAR NEQ '''))
706      0832 3     THEN
707      0833 4     BEGIN
708      0834 4     !+ Show character as itself.
709      0835 4     !- CHAR REP [0] = .CHAR;
710      0836 4     !- CHAR_DESC [DSCSW_LENGTH] = 1;
711      0837 4
712      0838 4     END
713      0839 4
714      0840 3     ELSE
715      0841 4     BEGIN
716      0842 4     !+ The character is not printable. Represent it by <>. To avoid
717      0843 4     ambiguity, "<" and ">" are also represented this way. Control characters
718      0844 4     SOH through SUB are represented by <^letter>; others characters by <hex>.
719      0845 4
720      0846 4     !-
721      0847 4     CHAR REP [0] = '<';
722      0848 4
723      0849 5     IF (((.CHAR + XX'40') GEQ 'A') AND ((.CHAR + XX'40') LEQ 'Z'))
724      0850 4     THEN
725      0851 5     BEGIN
726      0852 5         CHAR REP [1] = '^';
727      0853 5         CHAR REP [2] = .CHAR + XX'40';
728      0854 5     END
729      0855 4     ELSE
730      0856 5     BEGIN
731      0857 5
732      0858 5     LOCAL
733      0859 5         DIGIT;
734      0860 5
735      0861 5         DIGIT = (.CHAR^-4) + '0';
736      0862 5
737      0863 5         IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
738      0864 5
739      0865 5         CHAR REP [1] = .DIGIT;
740      0866 5         DIGIT = (.CHAR AND 15) + '0';
741      0867 5
742      0868 5         IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
743      0869 5
744      0870 5         CHAR REP [2] = .DIGIT;
745      0871 4     END;
746      0872 4
```

Pse

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VAX

VAX

```

747 0873 4      CHARREP [3] = '>';
748 0874 4      CHARDESC [DSCSW_LENGTH] = 4;
749 0875 3      END;
750 0876 3
751 0877 3      STATUS = STR$CONCAT (INTER_DESC, INTER_DESC, CHAR_DESC);
752 0878 3
753 0879 3      IF ( NOT .STATUS) THEN RETURN (.STATUS);
754 0880 3
755 0881 2      END;
756 0882 2
757 0883 2      STATUS = STR$COPY DX (.OUTPUT DESC, INTER_DESC);
758 0884 2      DISCARD DESCRIPTOR (INTER_DESC);
759 0885 2      RETURN T.STATUS;
760 0886 1      END;                                ! End of routine PRINTABLE_TEXT

```

Sym

CTL
CTL
EXE
EXE
EXE
EXE
EXE
EXE
FP\$
FP\$
FP\$
FP\$
FP\$
FP\$
FP\$
MMG
MMG
PRS
SYS
VAX
VAX

000C 00000 PRINTABLE_TEXT:							
							: 0760
							: 0814
							: 0815
							: 0818
							: 0826
							: 0828
							: 0829
							: 0830
							: 0831
							: 0837
							: 0838
							: 0828
							: 0847
							: 0849
							: 0852
							: 0853
							: 0861
							: 0863
							: 0865
							: 0866

```

        .WORD Save R2,R3
        SUBL2 #20, SP
        MOVL #34471936, INTER_DESC
        CLRL INTER_DESC+4
        MOVL #17694721, CHAR_DESC
        MOVAB CHAR REP, CHAR_DESC+4
        CLRL CHAR_NO
        BRW 7$                               : 0814
        ADDL3 INPUT ADDR, CHAR_NO, R0
        -1(ROT, CHAR
        MOVZBL -1(ROT, CHAR
        CMPL CHAR, #32
        BLSS 2$                               : 0815
        CMPL CHAR, #127
        BGEQ 2$                               : 0818
        CMPL CHAR, #60
        BEQL 2$                               : 0826
        CMPL CHAR, #34
        BEQL 2$                               : 0828
        BEQB 2$                               : 0829
        MOVAB CHAR, CHAR REP
        PJVW #1, CHAR_DESC
        BRB 6$                               : 0830
        MOVAB #60, CHAR REP
        64(R1), R0
        CMPL R0, #65
        BLSS 3$                               : 0831
        CMPL R0, #90
        BGTR 3$                               : 0837
        MOVAB #94, CHAR REP+1
        BRB 5$                               : 0838
        ASHL #-4, CHAR, R0
        ADDL2 #48, DIGIT
        CMPL DIGIT, #57
        BLEQ 4$                               : 0847
        ADDL2 #7, DIGIT
        MOVAB DIGIT, CHAR REP+1
        EXTZV #0, #4, CHAR, DIGIT
        ADDL2 #48, DIGIT

```

EDT\$WRIEDTMSG
V04-000

EDI\$WRIEDTMSG - write VMSMSG.MSG
PRINTABLE_TFAT - Return a binary string in ASCII

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-\$2'

		39	50	D1 00087	CMPL	DIGIT, #57	: 0868
		50	03	15 0008A	BLEQ	5\$	
	02	AE	07	C0 0008C	ADDL2	#7, DIGIT	: 0870
	03	AE	50	90 0008F	MOV8	DIGIT, CHAR REP+2	: 0873
	04	AE	3E	90 00093	MOV8	#62, CHAR REP+3	: 0874
			04	B0 00097	MOVW	#4, CHAR DESC	: 0877
			04	AE 9F 0009B	PUSHAB	CHAR DESC	: 0000
			10	AE 9F 0009E	PUSHAB	INTER-DESC	: 0000
			14	AE 9F 000A1	PUSHAB	INTER-DESC	: 0000
		00000000G	00	03 FB 000A4	CALLS	#3, STR\$CONCAT	: 0000
			53	50 D0 000AB	MOVL	R0, STATUS	: 0000
			2D	53 E9 000AE	BLBC	STATUS, 8\$: 0000
FF69	52	01	08	AC F1 000B1	ACBL	INPUT LEN, #1, CHAR_NO, 1\$: 0879
			0C	AE 9F 000B8	PUSHAB	INTER-DESC	: 0820
			04	AC DD 000BB	PUSHL	OUTPUT DESC	: 4851
		00000000G	00	02 FB 000BE	CALLS	#2, STR\$COPY_DX	: 7FFE
			53	50 D0 000C5	MOVL	R0, STATUS	: 8000
			0C	AE 9F 000C8	PUSHAB	INTER DESC	: 8000
		00000000G	00	01 FB 000CB	CALLS	#1, STR\$FREE1 DX	: 8000
			09	50 E8 000D2	BLBS	FREE STATUS, 8\$: 8000
		00000000G	00	50 DD 000D5	PUSHL	FREE STATUS	: 8000
			50	01 FB 000D7	CALLS	#1, [IB\$STOP	: 8001
			53	D0 000DE	MOVL	STATUS, R0	: 0885
			04	000E1	RET		: 0886

; Routine Size: 226 bytes, Routine Base: _EDT\$CODE + 0693

; 761 0887 1 !<BLF/PAGE>

EDT\$WRIEDTMSG EDT\$WRIEDTMSG - write VMSMSG.MSG
V04-000 PRINTABLE_TEXT - Return a binary string in ASCII 16-Sep-1984 02:18:31 VAX-11 Bliss-32 v4.0-742
B 5 14-Sep-1984 12:25:55 [EDT.SRC]WRIEDTMSG.B32;1

: 763 0888 1 END
: 764 0889 1
: 765 0890 0 ELUDOM ! End of module EDT\$WRIEDTMSG

Page 28 (9)

\$2

Vir
Sta
Ima
Ima
Ima
Num
Num
Num
Num
Num
Num
Num
Num
Num
Ima
Map
Est

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	1909	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time	Per
\$_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	106	1	581	00:02.4	---

Tot

Tot
Usi

Tot

COMMAND QUALIFIERS

BLISS/(CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:WRIEDTMSG/OBJ=OBJ\$:WRIEDTMSG MSRC\$:WRIEDTMSG.B32/UPDATE=(ENH\$:W
RIEDTMSG)

Size: 1601 code + 308 data bytes
Run Time: 01:14.7
Elapsed Time: 02:10.7
Lines/CPU Min: 714
Lexemes/CPU-Min: 11820
Memory Used: 334 pages
Compilation Complete

Num
0 L
A t
LIN
OAD

0142 AH-BT13A-SE
VAX/VMS V4.0

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